

**Abstract**

METHOD FOR TRAINING A NEURAL NETWORK, METHOD FOR THE  
CLASSIFICATION OF A SEQUENCE OF INPUT QUANTITIES UPON  
EMPLOYMENT OF A NEURAL NETWORK, NEURAL NETWORK AND  
5 ARRANGEMENT FOR THE TRAINING OF A NEURAL NETWORK

For a first time span, the neural network is trained such that a  
discrimination value is maximized, whereby the discrimination values is dependent on  
pulses that are formed by pulsed neurons within the first time span. Iteratively, the  
first time span is shortened and a second discrimination value is formed until the  
10 second discrimination value is smaller than the maximum discrimination value. The  
trained neural network is the neural network of the last iteration wherein the second  
discrimination value is equal to the maximum discrimination value.

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### **Abstract of the Disclosure**

For a first time span, the neural network is trained such that a discrimination value is maximized, whereby the discrimination values is dependent on pulses that are formed by pulsed neurons within the first time span. Iteratively, the first time span is shortened and a second discrimination value is formed until the second discrimination value is smaller than the maximum discrimination value. The trained neural network is the neural network of the last iteration wherein the second discrimination value is equal to the maximum discrimination value.

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